



Figure S1. Structure of HpbD from *P. denitrificans*, PdHpbD. (A) Refined F_0-F_c omit map for cHyp-B (green carbons) bound to *pdHpbD* contoured at 2.5σ and ribbon diagram for *PdHpbD*. The C-terminal (β/α)₇ β -barrel domain is colored by secondary structure (helices red, strands blue), while the N-terminal capping domain is colored gray with the 20s loop colored orange and the 50s loop colored cyan. The cHyp-B is shown in stick representation, colored black, and the Mg ion is colored green. (B) Binding conformation of cHyp-B to *PdHpbD*. Interactions of the protein and cHyp-B with the Mg ion are shown as black dashed lines, and a hydrogen bond between the 4-OH hydroxyl and a protein backbone carbonyl is shown as a blue dashed line. Additional residues adjacent to the binding site for cHyp-B were removed for clarity. A more detailed stereo diagram can be found in Figure S2.